WHAT IS CLAIMED IS:

1. A surge protector comprising:

an insulating member having a conductive film divided by a discharge gap interposed therebetween;

a pair of main discharge electrode members opposite to each other contacting the conductive film;

an insulating tube fitted to the pair of main discharge electrode members opposite to each other to seal both the insulating member and a sealing gas inside thereof; and

oxide films formed on main discharge surfaces of the pair of main discharge electrode members by performing an oxidation treatment.

2. A surge protector according to claim 1, comprising:

a column-shaped insulating member having a conductive film divided by a discharge gap interposed in an intermediate of a peripheral surface;

a pair of main discharge electrode members opposite to each other on both ends of the insulating member contacting the conductive film;

an insulating tube fitted to the pair of main discharge electrode members opposite to each other to seal both the insulating member and a sealing gas inside thereof,

wherein the main discharge electrode members comprise:

peripheral portions attached to end faces of the insulating tube by blazing filler metal;

protrusive supporting portions protruding toward an inside and an axial direction of the insulating tube and supporting the insulating member in the radial inner surface thereof, and

oxide films formed on main discharge surfaces of the protrusive supporting portions of the pair of main discharge electrode members opposite to each other, by performing an oxidation treatment.

3. The surge protector according to claim 1 or 2,

wherein each of the oxide films has an average thickness in the range of 0.01 to 2.0 μm.

4. The surge protector according to any one of claims 1 to 3,

wherein the main discharge electrode members contain Cr enriched on the surface of the oxide films.